

HMH ...

Humidistat, for duct or wall mounting



HMH is a series of electromechanical humidistats for control of humidifying and/or dehumidifying in HVAC systems.

- ✓ For duct or wall mounting
- ✓ Protection class IP54
- ✓ Excellent accuracy and reliability
- ✓ Change-over contact, 250 V AC 10 A

Application

Can be used to control a humidifier or a dehumidifier or for on/off controlling of a fan. Can also be used to alarm when the humidity exceeds or falls below a pre-set level.

Function

The humidistat utilises human hair as its sensor medium. The hair stretches as the humidity increases and shrinks as the humidity decreases. These changes are then transmitted to a micro switch (or, optionally, to two switches). The setpoint switch affects the position of the micro switches in relation to the hair element.

The setpoint can be set at between 10 and 100% RH.

As the contacts are of the change-over type, the humidistat can control both humidification and dehumidification. This tried and tested construction, employing only a few movable parts, offers a high degree of reliability and accuracy.

Installation

HMH can be mounted in a ventilation duct or on a wall. The humidistat comes supplied with a flange which makes it suitable for both positions.

Calibration

The humidistats are calibrated at the factory before delivery to the customer, but should be precision calibrated after installation to ensure optimal results. After this, annual checks and re-calibration are recommended.

Maintenance

The hair element should be dusted off with a soft brush once a year. Do not rinse the hair element in water as this changes the calibration point.

For further information concerning maintenance, see instructions supplied on delivery.

Technical data

| | |
|-------------------------------------|---|
| Relay contact data | 10 A, 250 VAC resistive at 25 °C ambient 8 A, 250 VAC resistive at 60 °C ambient Not suitable for DC circuits |
| Ambient temperature | Sensor -20...70 °C Housing -20...60 °C |
| Setpoint | 10...100 % RH |
| Hysteresis | 3% RH at 45% RH |
| Protection class | IP54 |
| Cable gland | PG11 |
| Mounting | Via universal bracket, for both wall or duct mounting |
| Dimensions, external (WxHxD) | 104 x 318 x 88 mm |
| Weight | 0.6 kg |



This product carries the CE-mark. More information is available at www.regincontrols.com.

Material

| | |
|---------------------------|-------------------------------------|
| Housing | Extruded aluminum (grey) |
| Plastic components | Self-extinguishing Macrolon (white) |

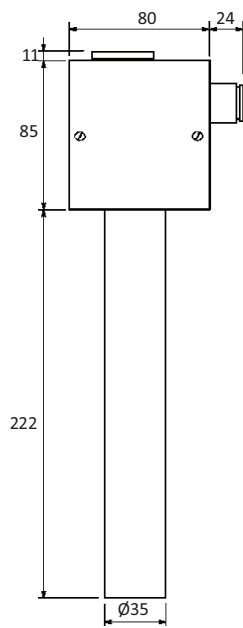
Models

| Article | Description |
|----------------|-----------------------------|
| HMH | 1 step, change-over contact |

Accessories

| Article | Description |
|----------------|-----------------------------|
| HH1608 | Hair element, length 182 mm |

Dimensions



[mm]

Wiring

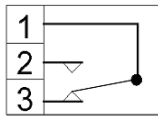


Fig. 1 HMH

The contact between terminals 1 and 2 closes when the humidity exceeds the setpoint value.

Documentation

All documentation can be downloaded from www.regincontrols.com.